Future Flight Design					
2002 Science and Technology Academic Standards					
Grade 7					
Activity/Lesson	State	Standards			
Air Transportation		SCT.7.3.2.7.B.	Interpret data, formulate models, design		
Problem	PA	5	models, and produce solutions.		
Air Transportation		SCT.7.3.2.7.C.	· · ·		
Problem	PA	6	the experiment.		
			Apply the appropriate method of		
Air Transportation		SCT.7.3.6.7.B.	communications technology to communicate		
Problem	PA	4	a thought.		
			Explain transportation technologies of		
Air Transportation		SCT.7.3.6.7.C.			
Problem	PA	8	controlling and supporting.		
			Model and explain examples of vehicular		
Air Transportation		SCT.7.3.6.7.C.	propulsion, control, guidance, structure and		
Problem	PA	10	suspension systems.		
Air Transportation		SCT.7.3.6.7.C.	Explain the limitations of land, marine, air		
Problem	PA	11	and space transportation systems.		
Air Transportation		SCT.7.3.7.7.C.	Know specialized computer applications		
Problem	PA	1	used in the community.		
Air Transportation		SCT.7.3.7.7.D.	Identify and solve basic software problems		
Problem	PA	2	relevant to specific software applications.		
Air Transportation		SCT.7.3.7.7.D.			
Problem	PA	3	Identify basic multimedia applications.		
Air Transportation		SCT.7.3.7.7.D.	Demonstrate a basic knowledge of desktop		
Problem	PA	4	publishing applications.		
Air Transportation		SCT.7.3.7.7.D.			
Problem	PA	6	Apply basic graphic manipulation techniques.		
			Identify and explain improvements in		
			transportation, health, sanitation and		
			communications as a result of		
Air Transportation		SCT.7.3.8.7.A.	advancements in science and technology		
Problem	PA	3	and how they effect our lives.		
Aircraft Design		SCT.7.3.1.7.A.	,		
Problem	PA	2	Explain the importance of order in a system.		
Aircraft Design		SCT.7.3.1.7.A.			
Problem	PA	5	Apply systems analysis to solve problems.		
Aircraft Design		SCT.7.3.4.7.C.	11, 7 = 7 = 1 = 1 = 1		
Problem	PA	3	Explain various motions using models.		
			Explain the factors that were taken into		
Aircraft Design		SCT.7.3.6.7.A.	consideration when a specific object was		
Problem	PA	3	designed.		
	1	-	Explain the difference between design		
Aircraft Design		SCT.7.3.6.7.C.	engineering and production engineering		
Problem	PA	6	processes.		
Aircraft Design	1.73	SCT.7.3.6.7.C.	•		
Problem	PA	9	mechanical power systems.		
Aircraft Design	Ι Λ	SCT.7.3.6.7.C.	Explain the limitations of land, marine, air		
Problem	PA	11	and space transportation systems.		
FIUDIEIII	F A	1 1	and space transportation systems.		

			Identify uses of tools, machines, materials,
Aircraft Design		SCT.7.3.7.7.A.	information, people, money, energy and time
Problem	PA	1	that meet specific design criteria.
Aircraft Design		SCT.7.3.8.7.A.	Identify and describe the unavoidable
Problem	PA	1	constraints of technological design.
Aircraft Design		SCT.7.3.8.7.B.	Identify interrelationships between systems
Problem	PA	1	and resources.